

DERWENT-ACC-NO: 1990-331815

DERWENT-WEEK: 199808

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TITLE: Poly (4-methyl-1-pentene) surface-roughened  
release film  
useful for - prep'd. by embossing uniaxially drawn film,  
multilayer printed circuit boards mfr.

PATENT-ASSIGNEE: MITSUI PETROCHEM IND CO LTD [MITC]

PRIORITY-DATA: 1989JP-0057765 (March 13, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
JP 02238911 A	September 21, 1990	N/A
007 N/A		
JP 2701924 B2	January 21, 1998	N/A
005 B29C 043/32		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 02238911A	N/A	1989JP-0057765
March 13, 1989		
JP 2701924B2	N/A	1989JP-0057765
March 13, 1989		
JP 2701924B2	Previous Publ.	JP 2238911
N/A		

INT-CL (IPC): B29C043/20, B29C043/32, B29C055/06, B29C059/04,  
B29K023:00, B29K059/00, B29K105:06, B29L031:34, H05K001/03

ABSTRACTED-PUB-NO: JP 02238911A

BASIC-ABSTRACT:

Release film is prep'd. by embossing a uniaxially drawn poly(4-methyl-1-pentene)  
film so that both surfaces of the film are roughened.

Prodn. of the release film involves uniaxially drawing the melt-extruded film,  
and surface-roughening with emboss rolls under high temp. pressure

conditions.

Pref. release film has an average surface roughness of 0.5-10 micron. The embossing is conducted at 100-220 deg.C, 50-200 kg/sq.mm. The drawing is conducted at a draw ratio of 2.5-6.

USE/ADVANTAGE - The release film is used for prodn. of the outer layers, e.g., composed of a prepreg and a Cu foil, of multiply printed circuit boards. The release film is placed on the prepreg overlayed on the Cu foil. Then, the laminate is sandwiched between hot plates and heat-pressed. The prepreg is surface-roughened, This contributes to high bonding strength. This film, having a high rigidity, is prevented from creasing, and the embossed pattern is kept during the press moulding of the laminate.

CHOSEN-DRAWING: Dwg. 0/4

TITLE-TERMS: POLY METHYL PENTENE SURFACE ROUGH RELEASE FILM  
PREPARATION EMBOSST  
UNIAXIAL DRAW FILM USEFUL MULTILAYER PRINT CIRCUIT BOARD  
MANUFACTURE

DERWENT-CLASS: A17 A32 A85 L03

CPI-CODES: A04-G10; A11-C04C; A12-S06A; A12-W02; L03-H04E3;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0011 0229 0231 0269 2450 2453 2479 3226 2492 3240 2496  
2510 2516  
2604 2628 3253 2661 3269 2726 2728 2740  
Multipunch Codes: 014 03- 04- 041 046 308 395 415 435 437 443 447 450  
452 465  
466 468 47& 477 494 496 50& 53& 541 542 55& 551 560 566 575 59& 597  
600 602 623  
627 628 688 698 723

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-144003